



# आरत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY



सं० ४७] नई दिल्ली, शनिवार, नवम्बर २१, १९९८ (कार्तिक ३०, १९२०)  
No. 47] NEW DELHI, SATURDAY, NOVEMBER 21, 1998 (KARTIKA 30, 1920)

इस भाग में भिन्न पुष्ट संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड २

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा आई की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिफिसेंस [Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 21st November 1998

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**पेटेंट कार्यालय**  
**एकस्य तथा अभिकल्प**  
**कलकत्ता, दिनांक 21 नवम्बर 1998**

**पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार**

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा मुख्य, विल्स एवं चेन्नई में इक्के शाखा कार्यालय हैं, जिनमें प्रादर्शीक क्षेत्राधिकार जोन के आधार पर निम्न रूप ग्रंथालय हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टिंग्स,  
 तीसरा तल, लॉअर पार्क (प.),  
 मुख्य-400013।

गुजरात, महाराष्ट्र, मध्य प्रदेश  
 तथा गोवा राज्य क्षेत्र एवं मध्य  
 काशीन क्षेत्र, दमन तथा दोबा एवं  
 बाबर और नगर हवेली।

तार पता - "पेटेंटफिस"

पेटेंट कार्यालय शाखा,  
 एकक सं. 401 से 405, तीसरा तल,  
 नगरपालिका लाला भवन,  
 सरस्वती मार्ग, करोल बाग,  
 मह-दिल्ली-110 005।

हरियाणा, हिमाचल प्रदेश, जम्मू  
 और कश्मीर, पंजाब, राजस्थान,  
 उत्तर प्रदेश तथा दिल्ली राज्य  
 क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़।

तार पता - "पेटेंटफिस"

APPLICATION FOR THE PATENT FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed under section 135, under Patent Act 1970.

8-9-1998

1607/Cal/98. Koninklijke Philips Electronics N.V., "Optical record carrier and apparatus for scanning such a record carrier". (Convention No. 97202767.6 on 9-9-97 in Europe).

1608/Cal/98. Inlet Corporation, "Network controller for processing status queries". (Convention No. 08. 972,758 on 18-11-97 in U.S.A.).

1609/Cal/98. Mahesh Chandra Dwivedi, "Electrical lead".

1610/Cal/98. Human RT., "Pharmaceutical composition containing plasma protein". (Convention No. P97-01554 on 18-9-97 in Hungary).

1611/Cal/98. (1) Hoeganaes Corporation and (2) Aveka, INC., "Improved metallurgical compositions containing binding agent/lubricant and process for preparing same". (Convention No. 08 935,382 on 21-10-97 in U.S.A.).

पेटेंट कार्यालय शाखा,  
 विंग 'सी' (सी-4, ए),  
 तीसरा तल, राजाजी भवन,  
 बस्तन नगर, चंडीगढ़-600090।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु  
 तथा पाण्डितं चंद्री राज्य क्षेत्र एवं  
 मध्य शासित क्षेत्र, लक्ष्मीपुर, फिलिप्पीय  
 तथा लीसनिनिदिविय द्वीप।

तार पता—"पेटेंटफिस"

पेटेंट कार्यालय (प्रधान कार्यालय),  
 निजाम पैलेस, द्वितीय छहतीय कार्यालय  
 भवन, 5, 6 तथा 7वां तल,  
 234/4, आचार्य जगदीश बोस मार्ग,  
 कलकत्ता-700 020।

भारत का अधिकृत क्षेत्र।

तार पता - "पेटेंटस"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 एवं अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालयों में ही प्राप्त किए जाएंगे।

शुल्क : शुल्कों की अवधारणी या होने वाले की जाएगी अथवा उचित कार्यालय में नियंत्रक के भगतान योग्य भनादेश अथवा डाक शादेश या जहां उपदेश कार्यालय अवस्थित है, उस स्थान के अनुसन्धित दैनंदिन से नियंत्रक के भूतान योग्य बैंक ड्रॉफ्ट अथवा बैंक द्वारा की जा सकती है।

1612/Cal/98. Celanese GmbH, "Phosphine-substituted cobaltocene salts, process for their preparation and their use as catalyst constituents". (Convention No. 19742904 on 29-9-97 in Germany).

1613/Cal/98 Celanese GmbH, "Process for the preparation of aldehydes". (Convention No. 19742907.6 on 29-9-97 in Germany).

1614/Cal/98. ICN Pharmaceuticals, Inc., "Cytokine related treatments of disease".

9-9-1998

1615/Cal/98 Glenn Robert Beale, "Container with integral handle, preform and method of manufacture" (Convention Nos. P09080 FP0982 and PP2441 on 9-9-97 17-12-97 and 8-5-98 in Australia).

1616/Cal/98 ITT Manufacturing Enterprises Inc., "Pump impeller". (Convention No. 9704223.8 on 18-11-97 in Sweden).

1617/Cal/98. Siemens Aktiengesellschaft, "Method and apparatus for cooling metals in a smelting works". (Convention No. 19740691.2 on 16-9-97 in Germany).

- 1618/Cal/98. Siemens Microelectronics, Inc., "Data processor". (Convention No. 08/928,766 on 12-9-97 in U.S.A.).
- 1619/Cal/98. Giddings & Lewis, Inc., "Improved coordinate measuring machine". (Convention No. 08/926,161 on 9-9-97 in U.S.A.).

10-9-1998

- 1620/Cal/98. Fangchenggang Ocean Science and Technology Development Centre, "Aspirating aerator".
- 1621/Cal/98. ABB Air Preheater, Inc., "Rotary regenerative heat exchanger". (Convention No. 09/022,175 on 11-2-98 in U.S.A.).
- 1622/Cal/98. Siemens Aktiengesellschaft, "Gas and steam-turbine plant and method of operating such a plant". (Convention No. 19745272.8 on 15-10-97 in Germany).

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

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## स्वीकृत सम्पूर्ण विनियोग

एतद्युपारा यह सूचना दी जाती है कि सम्बद्ध आवेदन में से किसी पर पट्टें अनुशासन के विरोध करने के इच्छुक कांह व्यक्ति, इसके नियम की तिथि से भार (4) महीने या अधिक पांसी अन्तिम जो संकर 4 महीने की अवधि की समाप्ति के पूर्व पट्टे नियम, 1972 के तहत विहित प्रपत्र 14 पर आवंटित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व के उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित बक्तव्य, उक्त सूचना के साथ अथवा पट्टे नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही काला किए जाने आवृत्ति।

"प्रत्येक विनियोग के सदम्भ में नीचे यिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुकूल हैं।"

रूपांकन (चित्र आरेल्स) की फोटो प्रतियां यदि कोई हों, के साथ विनियोगों की अंकित अथवा फोटो प्रतियां की आपूर्ति पट्टे कार्यालय, कलकत्ता अथवा उपयुक्त शास्त्र कार्यालय द्वारा विहित लिप्पान्तरण प्रभार (जैसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरात उसकी अदायगी पर की जा सकती है)। विनियोग की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनियोग के सामने नीचे वर्णित चित्र आरेल कागजों को जोड़कर उसे 2 से गुणा करके, (वर्द्धक प्रत्येक पृष्ठ का लिप्पान्तरण 5 भार 2/- रु. है) फोटो लिप्पान्तरण प्रभार का परिकलन किया जा सकता है।

Cl. : 206 B G

181951

Int. Cl. : H 03 M1/00.

A SYSTEM FOR TRANSMITTING NTSC VIDEO SIGNALS AND DIGITAL HDTV SIGNALS OVER A COMMON MICROWAVE COMMUNICATION CHANNEL TO A TELEVISION TRANSMITTER FACILITY FOR BROADCAST THEREFROM TO CUSTOMER SITES".

Applicant . HARRIS CORPORATION, OF 1025 NASA BLVD., MELBOURNE, FLORIDA 32919 UNITED STATES OF AMERICA.

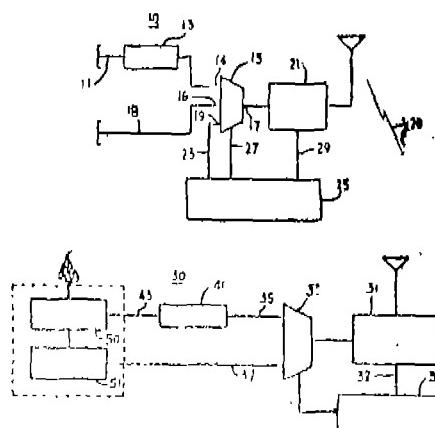
Inventor : RONALD EUGENE TOTTY.

Application No. 286/Cal/94 filed on 20th April, 94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 3 Claims

A system for transmitting NTSC video signals and digital HDTV signals, from a television studio (10) over a common microwave communication channel link (28) to a television transmitter facility for broadcast therefrom to customer sites said system comprising a television studio (10) and a television facility (30) wherein said television studio comprises a digital codec (13) for converting said NTSC video signals into digital format, a multiplexer (15) for multiplexing digitally formatted NTSC signals produced by said codec with said digital HDTV signals into a combined NTSC/HDTV digital television signals, a microcontroller (25) for controlling said multiplexer (15) and a microwave Radio transmitter (21) coupled to the output of said multiplexer (15) for transmitting the combined NTSC/HDTV digital television signals over the said common microwave communication channel linking said television studio (10) with said television transmitter facility.



(Compl. Specn. 11 pages;

Drawns 1 sheet.)

Cl. : 206 E

181952

Int. Cl. : H 05 K 13/00.

**A CIRCUIT STRUCTURE FOR CONNECTING AND DISCONNECTING AN INTEGRATED CIRCUIT IN HOT PLUGGABLE MANNER TO A MOTHERBOARD.**

Applicant : HARRIS CORPORATION, OF 1023 NASA BLVD, MELBOURNE, FL 32919, UNITED STATES OF AMERICA.

Inventor : STEVEN P. WEIR.

Application No. 527/Cal/94 filed on 5th July, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 3 Claims

A circuit structure for connecting and disconnecting an integrated circuit in a hot pluggable manner to a motherboard comprising an IC card (1) having connecting pins of equal length for connection to the motherboard (2) via connector circuit (21) provided on the said motherboard (2), the ground bus of the said IC card (1) being connected to the ground bus (28) of the said motherboard (2) via the said connector circuit (21), characterized in that a controller (25) provided with control switches (22, 23) between connector (21) and the general purpose signal bus (26) and power bus (27), the said switch (23) is a variable impedance switch and the said controller (25) detects an insertion of IC card (1) being physically inserted in a connector (21), the said controller (25) monitors (S1) the power supply by controlling the impedance of the switch (23) and closes the switch (23) (S2 to S4) to connect the motherboard power bus (27) to IC card (1) followed by closing of the switch (22) (S5) to connect the motherboard general signal bus (26) to the IC card (1) and the said controller (25) on detection that the said IC card (1) being removed (S6, S8) from the motherboard (2) the controller then causes the switches (22, 23) to open (S7) in reverse order in which the switches (22, 23) were closed (S2 to S4) when the IC card was first connected to the motherboard connector (21) the said controller (25) provides in this "on" condition the IC card is ready for disconnection in the connector (21) (S9).

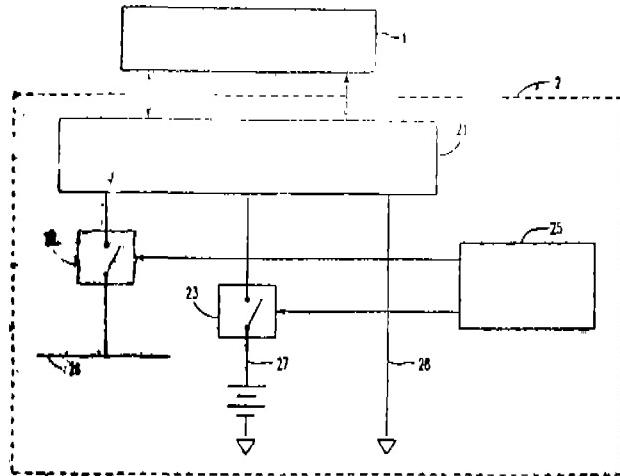


Figure 1

(Compl. Specn. 9 pages;

Drgns. 2 sheets.)

Cl. : 143 D 4

181953

Int. Cl. : B 65 B 25/14, 25, 22.

### A TWIST-WRAPPLING MACHINE

Applicant : TENCHI KIKAI KABUSHIKI KAISHA, OF 1722, PURAKISHIMIZUCHO, SAKAI, OSAKA PREFECTURE, JAPAN.

Inventor : HIROAKI FUKUSAKI.

Application No. 612/Cal/1994 filed on 1st August, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Calcutta.

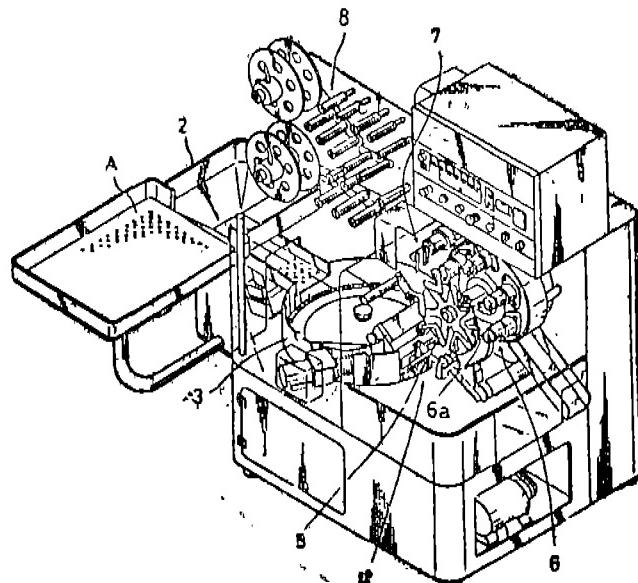
### 10 Claims

A twist-wrapping machine (1) comprising an aligner means (3) for orienting a plurality of units of a wrapping load individually, a takeout means (4) for taking out of the wrapping load from said aligner means (3), a paper feeder (8) for supplying wrapping paper adjacentally of the load taken out by said takeout means (4), a fork means (5) for gripping the load and accompanying wrapping paper, a twister (6) for twist-wrapping both free end of the wrapping paper while it is so gripped, and a discharge means (7) for ejecting the twist-wrapped load,

said aligner means (3) having an aligning disc (10) adapted to rotate intermittently within a horizontal plane and equipped with holding apertures (13) for accommodating the load,

said takeout means (4) having a pushup member (24) adapted to move in a path of movement passing through said holding apertures (13) and a pressor arm (34) adapted to press down the load on the pushup member (24) from above, and

said pushup member (24) and said pressor arm (34) being independent of said fork means (5), and said pressor arm (34) moving in association with said pushup member (24) to eject the load in an upward direction.



(Compl. Specn. 33 pages;

Drgns. 20 sheets.)

Cl. : 128 K

181954

Int. Cl. : A 61 M 25/00.

**CATHETER NEEDLE HAVING SURFACE INDICATION THEREON.**

Applicant : CRITIKON, INC., OF 4110 GEORGE ROAD, TAMPA, FLORIDA 33634, UNITED STATES OF AMERICA.

Inventors :

1. THOMAS EDISON SLOANE, JR.
2. ZINOVY ALTMAN.

Application No. 695/Cal/1994 filed on 31st August 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Calcutta.

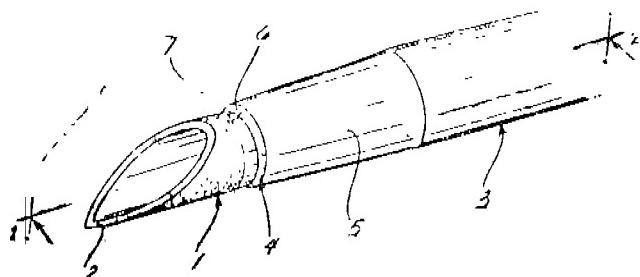
## 6 Claims

A catheter needle having surface indication thereon comprising:

an insertion needle or cannula (1) having a sharpened point (2) and a passage defined therein;

a catheter (3) having a hub and a distal portion of tubular material disposed over said needle and ending in a distal tip (4);

said needle having a natural surface finish of a first visual quality over a major portion thereof and a second visual characteristic which is immediately adjacent the said distal tip of said catheter indicating the tip of the catheter on the surface of the needle having a surface finish which is more reflective than the remainder of the surface finish of the needle.



(Compl. Spec. 13 pages)

Drugs. 8 sheets.)

C1 : 156 E.

181955

Int. Cl.<sup>1</sup> : F 04 B 47/00,  
F 04 F 1,20.

## LIQUID IMMERSED PUMP.

Applicant : TOYO DENKI INDUSTRIAL CO. LTD., OF  
7-10, NOKIMATSU 1-CHOME, YAHATANISHI-KU,  
KITAKYUSHU-SHI, FUKUOKA, JAPAN.

Inventor : TOSHIINOBU ARAOKA.

Application No. 706/Cal/1994 filed on 5th September, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A liquid immersed pump wherein the pump comprises an impeller casing (12) which is provided with an accumulated material suction opening (10) at the bottom surface thereof and rotatably encases an impeller (11) therein, and a motor casing (14) which is mounted on the upper portion of the impeller casing (12) and an impeller (11) and an agitating cutter (24) made of a material selected from high chromium steel, stainless steel and sprayed ceramic are mounted on an output shaft (16) of a power operated motor (14) in an axially spaced-apart manner, characterized in that,

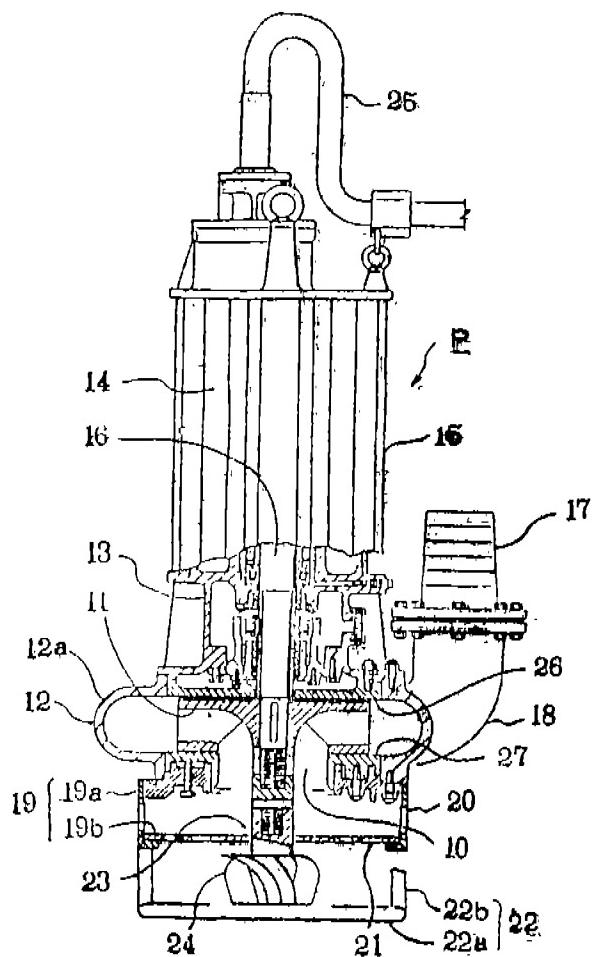
a cylindrical strainer (19) is provided with apertures (20, 21) on a cylindrical portion (19a) and a bottom portion (19b) thereof, which connects to the lower portion of said impeller casing (12) for preventing an inflow of massive material having a size larger than a predetermined allowable size into said impeller casing (12).

a bent discharge pipe (18) which communicates the proximal end thereof with the peripheral portion of said impeller casing (12) while communicating the distal end thereof with the proximal end of an accumulated material conduit (17).

a lower wall portion of said impeller casing (12) is made of a contact plate (27), which is finely adjustable in a vertical direction relative to said impeller (11), so as to maintain a desired constant gap between a lower surface of said impeller (11) and an upper surface of said contact plate (27).

an upper wall portion of said impeller is made of a backing plate (26) which is finely adjustable in a vertical direction relative to said impeller (11) so as to maintain a desired constant gap between a lower surface of said impeller and an upper surface of said backing plate (26) and

said motor casing (14) is connected to said impeller casing (12) by way of a bearing casing (13) an oil seal housing (54) is provided around the output shaft (16) of the motor (14) which passes through the bearing casing (13), and a plurality of oil seal (57) packing made of a soft resilient material and a plurality of shock resistant oil seal (58) packing are axially disposed in an annular gap defined between the output shaft (16) and the oil seal housing (54).



Compl. specn. 34 pages

Drgns. 17 sheets

C1 : 6 B 3.

Int. Cl. 4 : B 01 D 45/08.

APPARATUS FOR SEPARATING SOLIDS FROM A  
SOLIDS AND GAS FLOW IN A COMBUSTOR HAVING  
FLUID CIRCULATING SYSTEM.

Applicant : THE BABCOCK & WILCOX COMPANY,  
OF 1450 POYDRAS STREET, P.O. BOX 60035, NEW  
ORLEANS, LA 70160 UNITED STATES OF AMERICA.

## Inventors :

1. EDWARD DEE DAUM, AND
2. DANIEL ROBERT ROWLEY.

Application No. 783/Cal/1994 filed on 26th September, 1994.

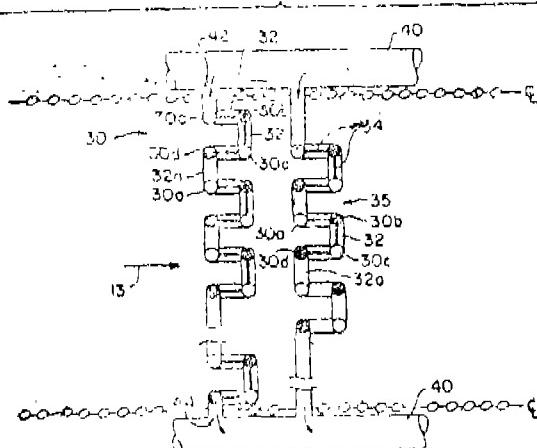
Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Calcutta.

## 15 Claims

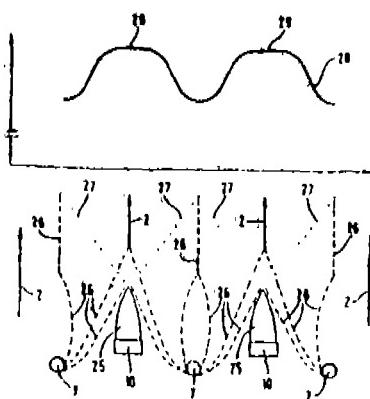
An apparatus for separating solids from a solids and gas flow in a combustor having a fluid circulating system, the apparatus comprising :

- a plurality of separators adjacently positioned and horizontally, spaced in a path of a solids and gas flow, each separator having a first leading vertical tube, a second leading vertical tube horizontally spaced from the first leading vertical tube, a first rear vertical tube horizontally spaced from the first leading vertical tube, and a second rear vertical tube horizontally spaced from the second leading vertical tube;
- a connector communicating with the first leading vertical tube and the first rear vertical tube, a connector communicating with the first rear vertical tube and the second rear vertical tube, and a connector communicating with the second rear vertical tube and the second leading vertical tube;
- a membrane connected between the first leading vertical tube and the first rear vertical tube, between the first rear vertical tube and the second rear vertical tube, and between the second rear vertical tube and the second leading vertical tube to create a concave-shaped configuration that will capture oncoming solids particles entrained within the flue gas;
- the first leading vertical tube of a first separator communicating with the fluid circulating system and the second leading vertical tube of the last one of said plurality of separators, communicating with the fluid circulating system;
- a separator connector communicating with the second leading vertical tube of one separator and the first leading vertical tube of an adjacent separator; and
- the tubes and the connectors for passing fluid from the fluid circulating system through each separator and back into the fluid circulating system.

FIG. 6







Compl. Specn: 13 pages

Drawgs.: 04 sheets.

Ind. Cl. : 39 E

181961

Int. Cl.<sup>4</sup> : C 22 B 3/00**A PROCESS FOR PRODUCING A METAL OXIDE PRODUCT FROM METAL-CONTAINING MINERAL ORES.**

Applicant : COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION OF LIMESTONE AVENUE, CAMPBELL, AUSTRALIAN CAPITAL TERRITORY 2601 AUSTRALIA.

## Inventors :

- (1) TERENCE WILLIAM TURNER
- (2) MANH HOANG.

Application No. 235/Mas/1993 filed on 1st April 1993.  
(Convention Date : 2nd April 1992; No. PL1652; Country : Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Chennai Branch.

## 15 Claims

A process for producing a metal oxide product from metal-containing mineral ores, the said process comprising the steps of providing a metal-containing material; and a leaching composition having a source of ammonium ions; a source of carbonate ions, and water; contacting the metal-containing material with the leaching composition to form an aqueous slurry for a time sufficient such that a metal complex is produced; subjecting the metal-containing material to a size reduction step prior to, or simultaneously with, the leaching step such that the average diameter of the particles is below 100 micron; isolating a leaching solution containing the metal complex so formed and recovering the metal oxide product therefrom in a known manner.

(Com. 17 Pages;

Drawgs. Nil Sheets)

Ind. Cl. : 32 F 3 (a)

181962

Int. Cl.<sup>4</sup> : C 07 C 47 '00**A PROCESS FOR THE PRODUCTION OF SUBSTITUTED ACROLEINS.**

Applicant : DAVY PROCESS TECHNOLOGY LIMITED A BRITISH COMPANY OF DAVY HOUSE, 68, HAMMER-SMITH ROAD, LONDON, W14 8YW, ENGLAND.

## Inventors :

- (1) GEORGE EDWIN HARRISON
- (2) ARTHUR JAMES REASON
- (3) ALAN JAMES DENNIS
- (4) MOHAMMAD SHARIF ALL BRITISH SUBJECTS.

Application No. 245/Mas/93 filed on 6th April, 1993.

(Convention date : 7th April, 1992; No. 9207756.9; British).

## 23 Claims

A process for the production of substituted acroleins by aldolisation followed by dehydration of an aldehyde or mixture of isomeric aldehydes containing from 3 to 10 carbon atoms, the said process comprises the steps of :

- (a) providing a plant comprising an aldolisation zone (16; 111) and a distillation zone (25; 123);
- (b) continuously supplying to the aldolisation zone (16; 111) an organic stream containing said aldehyde or mixture of aldehydes and an aqueous stream (21; 110) containing an alkali aldolisation catalyst;
- (c) maintaining the aldolisation zone (16; 111) under aldolisation conditions effective for conversion of said aldehyde or isomeric aldehydes in the presence of said alkali aldolisation catalyst by aldolisation followed by dehydration to said substituted acrolein or acroleins and water;
- (d) recovering from said aldolisation zone (16, 111) a reaction product stream (23; 113) comprising mixed organic and aqueous phases;
- (e) distilling said reaction product stream (23; 113) in said distillation zone (25; 123)
- (f) recovering overhead from said distillation zone (25; 123) a vaporous stream (26; 128) comprising unreacted aldehyde or aldehydes and water;
- (g) condensing said vaporous stream (26; 128) to form a condensate (133);
- (h) allowing the resulting condensate (133) to separate into an upper organic phase (51; 136) and a lower water phase (33; 139);
- (i) purging at least a part of said lower water phase (33; 139);
- (j) recycling material (54; 109) of said upper organic phase (51; 136) to said aldolisation zone (16; 111);
- (k) recovering from a bottom part of said distillation zone (25; 123) a bottoms product (36; 157) comprising an organic phase rich in substituted acrolein and an aqueous phase containing said alkali aldolisation catalyst;
- (l) cooling said bottoms products (36; 137);
- (m) allowing said cooled bottoms products (36; 137) to separate into an upper organic phase (45; 163) rich in substituted acrolein and a lower catalyst-containing phase (46; 174);
- (n) recycling material of said lower catalyst-containing phase (46; 174) to said aldolisation zone (16; 111); and
- (o) recovering said upper organic phase (45; 163).

(Com. 56 Pages;

Drawgs. 2 Sheets)

Ind. Cl. : 14 A 2

181963

Int. Cl.<sup>4</sup> : H 01 M 4/00

A METHOD OF MANUFACTURE OF HIGH PERFORMANCE FUEL CELL ELECTRODES WITH VERY LOW PLATINUM LOADING AND ELECTRODES MANUFACTURED BY THE SAID METHOD.

Applicant : SPJC SCIENCE FOUNDATION, 'MOUNT VIEW' II FLOOR, 110, MOUNT ROAD, GUINDY, MADRAS-600032, TAMIL NADU, INDIA. A SOCIETY DULY REGISTERED UNDER THE TAMILNADU SOCIETIES REGISTRATION ACT, 1975.

## Inventors :

- (1) GANGADHARAN SASI KUMAR
- (2) SRINIVASAN PARTHASARATHY.

Application No. 264/Mas/93 filed on 15th April, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 13 Claims

A method of manufacture of high performance fuel cell electrodes with very low platinum loading comprising the steps of preparing a substrate provided with a thin layer of a hydrophobic material, such as, teflon; providing a diffusion layer on the said layer of hydrophobic material, by spraying thereon a slurry of carbon and said hydrophobic material in a solvent, such as, a mixture of isopropyl alcohol and water and drying; pressing and sintering the same; providing a catalyst layer on the said diffusion layer, by spraying a slurry of platinum supported on carbon and an emulsion of the said hydrophobic material; and drying, pressing and sintering the electrode.

(Com. 11 Pages;

Drwgs. 2 Sheets)

Ind. Cl. : 205 H, K.

181964

Int. Cl. : B 29 D 30/00

## A TIRE MOLD.

Applicant : SEDEPRO, 230, RUE LECOURBE, 75015 PARIS, FRANCE, A FRENCH COMPANY.

## Inventors :

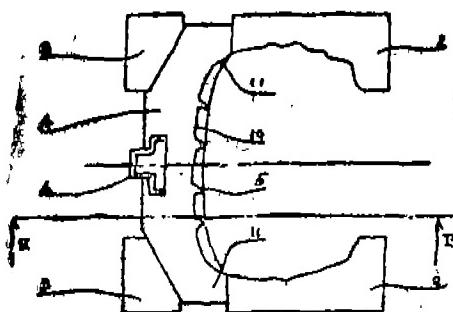
- (1) DANIEL LAURENT
- (2) PIERRE LADOUCE.

Application No. 286/Mas/93 filed on 27th April, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

## 19 Claims

A tire mold comprising two shells for the molding of the outside of the side walls of a tire, and a peripheral ring for the molding of the outside of the tread of the tire, characterized by the fact that the said ring is formed by a stacking of a plurality of adjacent thin elements oriented substantially radially along the circumference.



(Comp. Specn. 24 Pages;

Drwg. 02 Sheets)

Ind. Cl. : 129 G

181965

Int. Cl. : B 23 B 27/02.

## CUTTING TOOL INSERTS.

Applicant : KRUPP WIDIA GmbH., MUNCHENER STRASSE 90, D4300 ESSEN 1, WEST GERMANY, AN ORGANISATION DULY CONSTITUTED AND EXISTING UNDER THE LAWS OF WEST GERMANY.

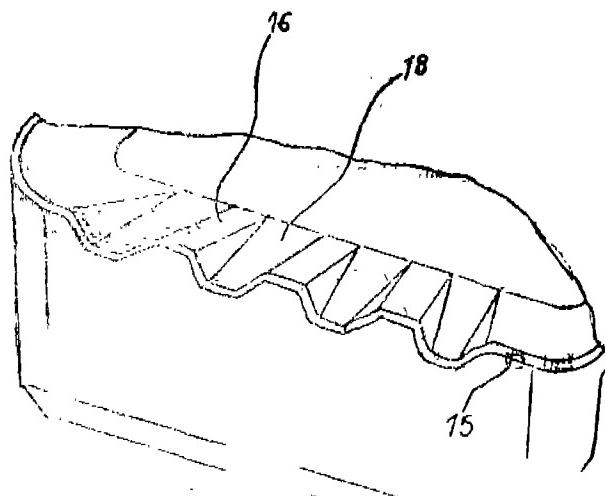
Inventor : JOSE AGUSTIN PAYA.

Application No. : 302/Mas/93 filed on 5th May, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 15 Claims

Cutting tool insert for the machining, especially for the roughing of metallic workpieces at high feeds, with a face (10, 16) which is provided at least in the region of the cutting edge (12) with indentations (14) arranged in continuous row along the cutting edge (12) and breaking through it and which deform the chip laterally to the flow direction and which has parallel to the cutting edge (12) and perpendicular to the face (10) a cross-section having mainly a trapez form with trapez flanks opening towards the face (10, 16) characterised in that the indentations have a face base extending towards the cutting edge (12) at a negative rake angle (19) or 0 rake angle, whereby the face (16) in the region between the indentations (14) at the cutting edge (12) has a positive rake angle (17) of minimum 5 and the transitions (25) from the negative face base (18) to the trapez flanks (25) and/or from the trapez flanks (25) to the face (16), surrounding the indentations (14) are rounded, preferably with a radius of 0.3 to 3mm.



(Compl. Specns. : 23 pages;

Drwgs. : 12 Sheets)

Ind. Cl. : 47 B

181966

Int. Cl. : C 10 B 47/12

A PROCESS AND APPARATUS FOR GASIFYING PARTICULATE SOLID CARBONACEOUS FUEL.

Applicant : STATE ELECTRICITY COMMISSION OF VICTORIA LEVEL 5, 452 FLINDERS STREET MELBOURNE, VICTORIA 3000 AUSTRALIA.

## Inventors :

1. TERENCE RICHARD JOHNSON,
2. ANTHONY CAMPFIE,
3. BERNARD ANDERSON,
4. DAVID MACLEAN WILSON,
5. DANH QUAN HUYNH,
6. GRAEME ELDRED PLEASANCE.

Application No. 312/Mas/93 filed on 7th May 1993.

(Convention date : 8-5-92; No. PL2300; Country : Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

23 Claims

A process for gasifying a particulate solid carbonaceous fuel with a high moisture content to produce combustible product gas, therefrom, said process comprising :

- introducing said fuel into one or more pressurized drying vessels without adding water to the fuel;
- reducing the moisture content of said fuel in said drying vessel(s) to a level suitable for gasification by passing hot product gas through the or each drying vessel such that the fuel particles are entrained in the gas flow, thereby cooling and humidifying the gas;
- separating said cooled and humidified gas from said fuel;
- transferring said fuel with reduced moisture content from the or each drying vessel to a gasification vessel;
- gasifying said fuel in said gasification vessel to produce hot product gas; and
- introducing at least a portion of said hot product gas into the or each drying vessel.

(Compl. Specn. 27 pages;

Drgns. : 1 sheet)

means, means for generating a waveform corresponding to the diastolic and systolic blood pressure of the patient and means for adjusting the time of deflation of the balloon means to maximize the area and amplitude of the diastolic waveform and minimize the area and amplitude of the systolic waveform during counterpulsation.

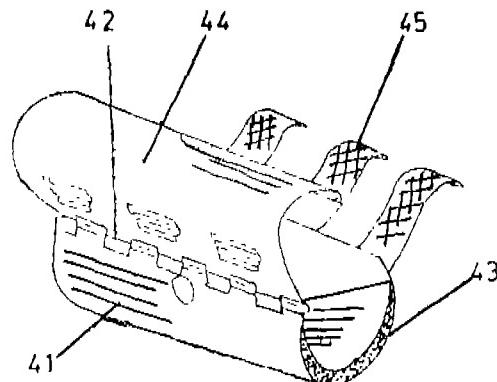


FIG. 6

(Compl. Specn. 35 pages;

Drgns. 9 sheets)

Ind. Cl. : 128-E

181967

Int. Cl. : A 61 H 23/04; 31/00.

**AN EXTERNAL COUNTERPULSATION APPARATUS FOR USE WITH A PATIENT.**

Applicant : VASOMEDICAL INC., OF 180 LINDEN AVENUE, WESTBURY NY 11590-3228, U.S.A. A CORPORATION OF DELAWARE, U.S.A.

Inventors :

1. ZHENSHENG ZHENG,
2. ZHILI HUANG,
3. SHIFANG YANG,
4. YING LIAO.

Application No. : 314/Mas/93 filed on 10th May, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

15 Claims

An external counterpulsation apparatus for use with a patient, comprising a source of compressed fluid; fluid reservoir means connected to the source of compressed fluid; fluid distribution means connected to the fluid reservoir means; balloon means adapted to be received about the lower extremities of the patient and connected to the fluid distribution means; control means for controlling the fluid distribution means to achieve inflation and deflation of the balloon

Ind. Cl. : 194 B

181968

Int. Cl. : C 23 C 16/50.

**A CVD PROCESS FOR THE MANUFACTURE OF A SUBSTRATE BODY FOR A CUTTING TOOL WITH HARD MATERIAL COATING AND A DEVICE FOR CARRYING OUT THE SAID PROCESS.**

Applicant : KRUPP WIDIA GmbH, MUNCHENER STRASSE 90, D4300 ESSEN 1, WEST GERMANY, AN ORGANISATION DULY CONSTITUTED AND EXISTING UNDER THE LAWS OF WEST GERMANY.

Inventors :

1. DR. MENDRIKUS VAN DEN BERG,
2. DR. UDO KONIG,
3. RALF TABERSKY.

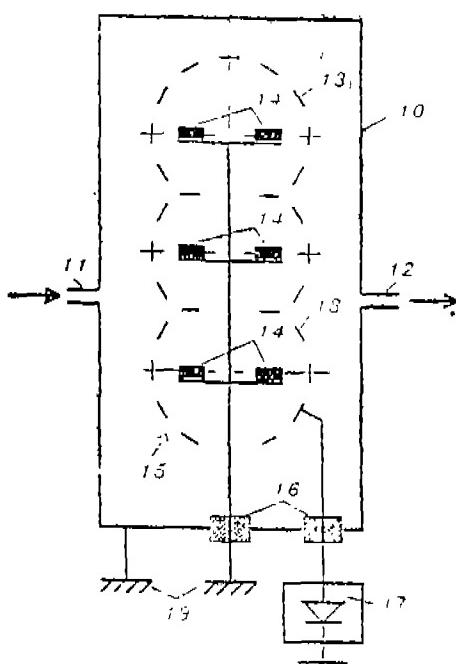
Application No. 329/Mas/93 filed on 14th May, 1993.

Appropriate Office for Oppositions Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

20 Claims

**A CVD process for the manufacture of a substrate body for a cutting tool with hard material coating comprising activation by a glow discharge, at temperatures above 300°C and pressures below 10,000 pa, characterised in that a glow edge is produced in a cage enveloping the substrate body/bodies on all sides on the inner surface oriented towards the**

substrate body, while a reactive gas mixture suitable for build-up of hard material coating is guided through the cage interior.



(Compl. Specn. 17 pages

Drgns. 04 sheets)

Ind. Cl. : 83 A 1 181969

Int. Cl. : A 23 G - 3/00.

CONFECTIONERY OR FOOD PRODUCT CONTAINING FAT-BASED COMPONENT.

Applicant : SOCIETE DES PRODUITS NESTLE S.A.  
A SWISS BODY CORPORATE OF VEVEY, SWITZERLAND.

Inventors :

1. BECKETT STEPHEN THOMAS,
2. JURY MARK,
3. MACKELLY MALCOLM ROBERT.

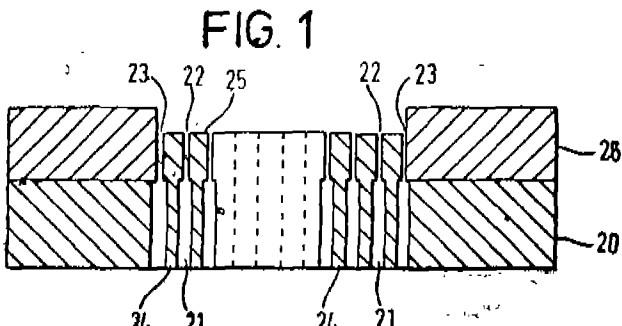
Application No. 1909/Mas/96 filed on 30th Oct., 1996.

(Convention date : 31-10-95; No. 9522303.8; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

4 Claims

A process for producing a structured chocolate or fat-containing confectionery material which comprises feeding a chocolate or a fat-containing confectionery material into an extrusion device and applying pressure to the chocolate or fat-containing confectionery material upstream of a flow constriction provided with a plurality of forming pins to extrude the chocolate or fat-containing confectionery material in the form of a continuous mass having substantially longitudinal passages wherein the chocolate or fat-containing confectionery material is extruded in a solid or semi-solid non-pourable or non-flowable state.



(Compl. Specn. 14 pages

Drgns. 2 sheets)

Ind. Cl. : 55 E 4 181970

Int. Cl. : A 61 K 35/78.

A PROCESS FOR THE MANUFACTURE OF HERBAL ANTI-DIABETIC PRODUCT.

Applicant : GEM ENERGY INDUSTRY LTD., AN INDIAN REGISTERED COMPANY, OF 58, CATHEDRAL ROAD, CHENNAI-600086, TAMIL NADU, INDIA.

Inventor : 1. KAMESWARAN NEELAKANTAN.

Application No. 1352/Mas/97 filed on 20th June, 97.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Chennai.

3 Claims

A process for the manufacture of a herbal anti-diabetic therapeutic product, comprising cleaning, drying, cooling of the seed of Dolichos biflorous, removing of the said outer shell of the seed of Dolichos biflorous, crushing of the outer shell of the said seed to the mesh size of 150—200 sieve and crushing of the said inner seed to the mesh size of 200—300 sieve, mixing by rotating at low RPM of 35—50 for the time period of 30—45 minutes the powder of fibrous outer shell of the seed and the powder of inner seed of Dolichos biflorous, finally exposing the said synergistic mixture to infra-red radiations for a period of 15—20 minutes.

(Compl. Specn. 12 pages

Drgn. Nil)

Ind. Cl. : 154 D, 203. 181971

Int. Cl. : B 41 J 15/04, B 41 13/00.

A WEB FOLDER FOR USING WITH EQUIPMENTS SUCH AS A PRINTER.

Applicant : OLIVER REX ANTO EMMANUEL, AN INDIAN CITIZEN, NO. 10, KUMBER STREET, MUTHAMIZH NAGAR, PAMMAL, CHENNAI-600 075, TAMIL NADU, INDIA.

Inventor : OLIVER REX ANTO EMMANUEL.

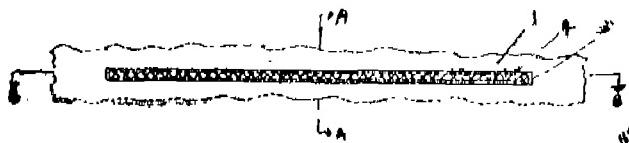
Application No. 164/Mas/1993 filed on 5th March, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

A web folder for using with equipments such as a printer, the said web folder comprising an outer member (1) in the form of an enclosure having two parallel faces perpendicular to the web feeding direction, slots (3) aligned to each other is provided on each face for feeding the web through them,

an inner member (2) having a slot aligned to the slots in the outer member, the said inner member being positioned inside the said outer member to obtain an assembly of the outer member and the inner member with the slots in them aligned to each other in normal position of feeding the web and allowing relative motion between the said outer member and the inner member and an actuating means (5) being provided for producing relative motion between the said outer member and the said inner member.



(Compl. Specn. 8 pages;

Drwg. 2 sheets.)

Ind. Cl. : 116 F. G

181972

Int. Cl. : B 66 F 9/00;

**HYDRAULIC DEVICE.**

Applicant : SJOERD MEIJER, OF OUDE BILDTDIJK 894 NL-9079 NG ST, JACOBIJPAROCHIE, THE NETHERLANDS, A DUTCH CITIZEN.

Inventor : SJOERD MEIJER.

Application No. 212/Mas/93 filed on 26th March, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**-10 Claims**

**Hydraulic device comprising at least two cylinder-piston assemblies** which are each of the double-action type with a front chamber and a rear chamber on either side of a piston and wherein the chambers of the cylinder-piston assemblies are connected in series in a hydraulic control circuit such that the front chamber of a first assembly has a direct connection to a rear chamber of a second assembly, wherein at least one of the cylinder-piston assemblies is provided with valve means which open a by-pass bypassing the piston of that assembly when the piston is situated close to the direct connection at the end of its stroke and wherein the effective piston surfaces are the same in the chambers mutually connected by the direct connection

(Compl. Specn. 15 pages;

Drwg. 5 sheets.)

Ind. Cl. : 141 B. D

181973

Int. Cl. : C 01 F 17/00.

**A PROCESS FOR RECOVERING CERIUM VALUES FROM A SOLID MIXTURE.**

Applicant : UNION OIL COMPANY OF CALIFORNIA, A CALIFORNIA CORPORATION OF 1201, WEST 5TH STREET, LOS ANGELES, CALIFORNIA 90017 U.S.A.

Inventor : BOSSERMAN PAULA J.

Application No. 224/Mas/1993 filed on 30th March, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**22 Claims**

A process for recovering cerium values from a solid mixture containing cerium oxide and a fluoride, which process comprises contacting said mixture with a leach solution comprising a strong acid and a boron compound such as zirconium capable of reacting with said fluoride to form a leachate containing solubilized cerium and a reaction product of said fluoride and said boron compound, and recovering said cerium values from the leachate in a known manner.

(Compl. Specn. 20 pages.)

Ind. Cl. : 12-C&amp;D

181974

Int. Cl. : G 01 N 25/00.

**A METHOD OF MAKING A REFURBISHED TURBINE BLADE.**

Applicant : TURBINE BLADING LTD., OF STATION ROAD, SHIPSTON ON-STOUR, WARWICKSHIRE CV36 4BL, UNITED KINGDOM, A U.K. COMPANY.

Inventor : MICHAEL JAMES FRASER.

Application No. 320/Mas/1993 filed on May 12, 1993.

Convention date : May 12, 1992; (No. 9210191.4; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**27 Claims**

A method of making a refurbished turbine blade comprising the steps of heating the damaged turbine blade to achieve a predetermined temperature distribution, sensing the temperature of the blade at least at one position by temperature sensing means and controlling the application of heat in accordance with the temperature determined by said at least one sensing means and monitoring the temperature of the blade at a location adjacent said at least one position with a monitoring means.

(Compl. Specn. 25 pages;

Drwg. 3 sheets.)

Ind. Cl. : 140 A 2

181975

Int. Cl. : C 10 M 105/00.

**A HYDRAULIC FLUID COMPOSITION SUITABLE FOR AIRCRAFT.**

Applicant : MONSANTO COMPANY, A CORPORATION OF THE STATE OF DELAWARE, USA, OF 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63167, U.S.A.

Inventor : GERBRAND DEETMAN.

Application No. 362/Mas/1993 filed on 24th May, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**19 Claims**

A fluid composition suitable for use as an aircraft hydraulic fluid comprising (a) a fire resistant phosphate ester base stock, comprising between 10% to 90% by weight of a trialkyl phosphate in which the alkyl substituents are substantially isoalkyl C<sub>1</sub> and C<sub>2</sub> and are bonded to the phosphate moiety via a primary carbon atom, between 0% and 70% by weight of a dialkyl aryl phosphate in which the alkyl substituents are as previously defined, and between 0% and 25% by weight of an alkyl diaryl phosphate in which the

alkyl substituent is as previously defined; (b) an acid scavenger such as herein described in an amount between 1.5% and 10% by weight of the fluid composition to neutralize phosphoric acid partial esters formed in situ by hydrolysis of any of the phosphate esters of the base stock; (c) an anti-erosion agent such as herein described in an amount between 0.02% and 0.68% by weight of the fluid composition to inhibit flow-induced electrochemical or zeta corrosion of the flow-metrin edges of hydraulic servo valves in hydraulic systems; (d) a viscosity index improver such as herein described in an amount between 3% and 10% by weight of the fluid composition to cause the fluid composition to exhibit a viscosity of at least  $3.0 \times 10^{-3} \text{ m}^2/\text{s}$  at  $99^\circ\text{C}$ , at least  $9.0 \times 10^{-3} \text{ m}^2/\text{s}$  at  $38^\circ\text{C}$ , and less than  $4200 \times 10^{-3} \text{ m}^2/\text{s}$  at  $-18^\circ\text{C}$  and (e) an antioxidant such as herein described in an amount effective to inhibit oxidation of fluid composition components in the presence of oxidizing agents.

(Compl. Specn. 70 pages;

Drwgs. 13 sheets.)

Ind. Cl. : 129 J

181976

Int. Cl. : B 21 B 27/00.

**ROLLS FOR METAL SHAPING AND A METHOD OF MAKING THE SAME.**

Applicant : COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, OF LIMESTONE AVENUE, COMBELL, AUSTRALIAN CAPITAL TERRITORY 2601, AUSTRALIA; THE UNIVERSITY OF QUEENSLAND, OF ST. LUCIA, QUEENSLAND 4072, AUSTRALIA; AND AKERS INTERNATIONAL AB, OF S-64060, AKERS STYCKEBRUK, SWEDEN.

Inventors :

1. KENNETH DONALD LAKELAND.
2. GRAHAM LEONARD FRASER POWELL.
3. TOMMY NYLEN.

Application No. 394/Mas/1993 filed on 10th June, 1993.

(Convention date : 19th June, '92; PL 3019; Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**29 Claims**

A roll, for the hot rolling or casting of steel products, the roll having an inner ferrous core and at least a peripheral surface layer, of not less than 25mm thick, cast from an ironbase alloy having :

- 8 to 18 wt% chromium,
- 0.5 to 3 wt% boron,
- upto 1 wt% carbon,
- upto 5 wt% molybdenum,
- upto 8 wt% vanadium,
- upto 5 wt% titanium,
- upto 7 wt% tungsten,
- upto 6 wt% niobium,
- upto 0.2 wt% aluminium,
- upto 3 wt% copper,
- upto 2 wt% manganese,
- upto 2 wt% nickel,
- upto 3 wt% silicon and,

apart from incidental impurities, a balance of iron.

(Compl. Specn. 26 pages;

Drwgs. 2 sheets.)

Ind. Cl. : 172 D 4

181976

Int. Cl. : D 01 H 09/18.

**A SPINNING FRAME.**

Applicant : MASCHINENFABRIK RIETER AG, OF CH-8406 WINTERTHUR, SWITZERLAND, A SWISS COMPANY.

Inventors :

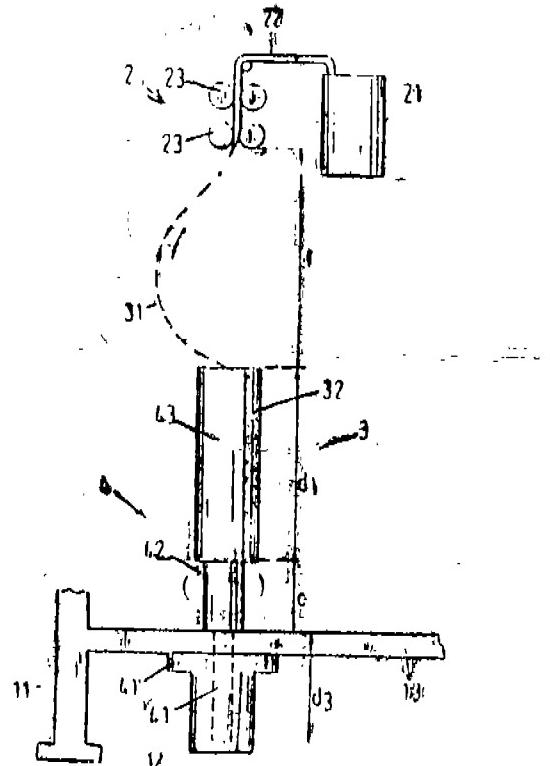
1. ANDRE LATTON.
2. PETER OEHY.

Application No. 417/Mas/1993 filed on 17th June, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Chennai Branch.

**5 Claims**

A spinning frame comprising a drafting system (2) to draw roving (22) from a roving supply (21) to a spinning unit (3) for simultaneously twisting and winding yarn (31) from the roving (22) characterised in that the said spinning unit comprises a drivable rotor (4, 4') having support and drive part (41), a receiving part (43, 43') for receiving the yarn and an intermediate part (42, 42') between the support and drive part (41) and the receiving part (43, 43') on a common axis maintaining a constant total length of the rotor (4, 4') constituting the length (d<sub>1</sub>) of the receiving part (43, 43'), the length (c) of the intermediate part (42, 42') and the length (d<sub>2</sub>) of the support and drive part (41) by selecting the appropriate length (c) of the intermediate part (42, 42') providing a constant distance between the drafting system (2) and the receiving part (43, 43') for different lengths of yarn bodies (32) which correspond to the length (d<sub>1</sub>) of the receiving part (43, 43').



(Compl. Specn. 42 pages;

(Drwgs. 4 sheets.)

Ind. Cl. : 172 C 1

181978

Int. Cl. : D 01 G 15/76.

CARDING OR BLOW ROOM MACHINE WITH A SUCTION APPARATUS FOR REMOVING WASTE MATERIAL.

Applicant : MASCHINENFABRIK RIETER AG A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND OF CH-8406, WINTERTHUR, SWITZERLAND.

## Inventors :

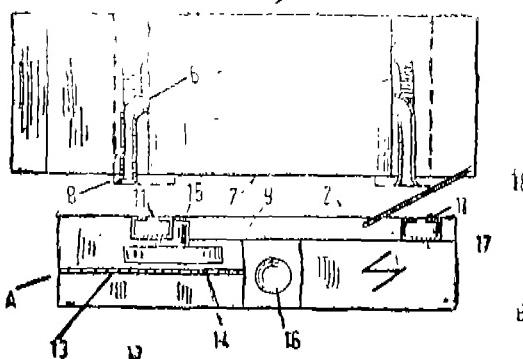
1. HANSELMANN DANIEL.
  2. OSWALD PETER.
  3. FAAS JURG.
- ALL are Swiss Nationality.

Application No. 444/Mas/93 filed on 28th June, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 9 Claims

A carding or blowroom machine with a suction apparatus for removing dust, trash, fly and like waste material, comprising a stationary casing (1) for the working elements of the machine, waste discharge openings at selected positions in the stationary casing (1), an air collecting device (9) with suction openings corresponding to the waste discharge openings, means defining a substantially vertical swivel axis fixed relative to the stationary casing in a position disposed to one side of the waste discharge openings and hinge means (18) connected to the air collecting device (9) to permit the air collecting device to swivel about the said axis between a closed position in which the air collecting device engages the casing with the suction openings aligned w the waste discharge openings an an open position in which the waste discharge openings are exposed.



(Compl. Specn. 11 pages;

Drwng. 1 sheet.)

Ind. Cl. : 172-B; 172-C1, C9.

181979

Int. Cl. : D 01 G 15/32.

AN APPARATUS FOR REMOVING UNWANTED MATERIALS, SUCH AS DIRT PARTICLES, TEXTILE FIBRES, TRASH PARTICLES FROM A CARD.

Applicant : MASCHINENFABRIK RIETER AG A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND OF CH-8406 WINTERTHUR SWITZERLAND.

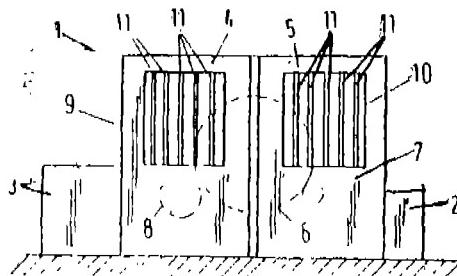
Inventor : FAAS JURG

Application No 459/Mas/93 filed on 6th July, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 12 Claims

An apparatus for removing unwanted materials, such as dirt particles, textile fibres, trash particles from a card said apparatus comprising a casing (1) being adapted for connecting with a suction device (15), characterised in that suction openings (9, 10) are provided at predetermined positions on said casing (1) for permitting inflow of air to flow to said suction device, the effective suction area of all suction openings (9, 10) being not less than 0.4 m<sup>2</sup>.



(Compl. Specn. 10 pages;

Drwng. 1 sheet.)

181980

Ind. Cl. : 192

Int. Cl. : A 45 B 19/10.

## AN IMPROVED UMBRELLA.

Applicant : 1. THAYYIL SKARIA VARGHESE, 2. GEORGE ABRAHAM THAYYIL, 3. THAYYIL VARGHESE SKARIA AND 4. DR. ABRAHAM THAYYIL ALL PARTNERS OF ST. GEORGE UMBRELLA MART, MULLAKKAL ALAPPUZHA 688 010, KERALA, INDIA, ALL INDIAN NATIONALS.

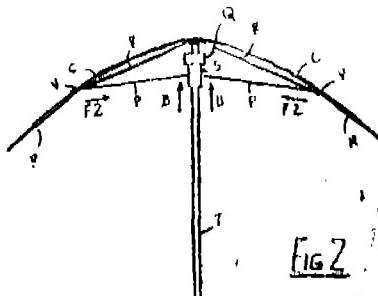
Inventor : THAYYIL VARGHESE SKARIA.

Application No. 482/Mas/93 filed on 15th July, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 2 Claims

An improved umbrella comprising a cover provided with a central stem; a plurality of pivotably connected radially disposed resilient ribs fixed to the top of the stem and to the inner surface of the cover; an equal number of pivotably connected radially disposed resilient stays fixed to the slide and also fixed respectively to predetermined points on the ribs; and a stopper provided at the top of the stem, the arrangement being such that a downward thrust on the slide is created by the ribs on the stays during the upward movement of the slide, up to a predetermined point whereafter an upward thrust on the slide is created by the ribs on the stays during further upward movement of the slide, to maintain the umbrella in its open position.



(Compl. Specn. 8 pages;

Drwng. 1 sheet.)

**CLAIM UNDER SECTION 20(1) OF THE PATENTS  
ACT, 1970**

In pursuance of leave granted under Rule 123 of the Patents Rule 1972 application No. 244/Cal/93 (178204) made by VIANOVA KUNSTHARZ AG has been allowed to proceed in the name of VIANOVA RESINS AG.

**RENEWALS FEES PAID**

171236 177989 177597 176048 177846 164329 170058 178977  
163484.

**CESSATION OF PATENTS**

170372 170387 170402 170468 170483 170494 170495 170496  
170538 170544 170565 170575 170578 170588 170598 170603  
170604 170623 170630 170643 170664 170672 170688 170695  
170697 170705 170752 170769 170772 170791 170813 170845  
170846 170849 170855 170884 170902 170929 170937 170951  
170954 170968.

**PATENT SEALED ON 23-10-98**

179514 179567 179824\*D 179960\* 179992 180101 180105  
180106 180107 180108\* 180109\* 180110 180111 180112  
180113 180118 180119 180120\* 180122\* 180123\* 180125\*  
180126\* 180127 180128 180129\*D 180130\*D 180131 180132  
180133 180134 180136 180137 180138 180139\* 180142  
180143\* 180144 180145 180147 180148 180149\* 180150.

CAL-10, DEL-01, MUM-01, CHEN-30.

\*Patent shall be deemed to be endorsed with words LICENCE OF RIGHT Under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—Drug Patents.

F—Food Patents.

**REGISTRATION OF DESIGNS**

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration included in the entries.

Class 1. No. 173089, John Fowler (India) Ltd., an Indian Company, Sarjapur Road, Bangalore-560 034, Karnataka, India, "OILY WATER SEPARATOR", 3rd February 1997.

Class 1. No. 173090, John Fowler (India) Ltd., an Indian Company, Sarjapur Road, Bangalore-560 034, Karnataka, India, "DIESEL CONDITIONING SYSTEM", 3rd February 1997.

Class 1. No. 173091, John Fowler (India) Ltd., an Indian Company, Sarjapur Road, Bangalore-560 034, Karnataka, India, "FILTER", 3rd February 1997.

Class 1. No. 173067, Johnson Controls Hong Kong Ltd., a company organized and existing under the Laws of Hong Kong and whose address is Unit 1501, 15/F, Devon House, Taikoo Place, 979 King's Rd., Quarry Bay, Hong Kong, "THERMOSTAT", 30th January 1997.

Class 1. No. 173056, Ess Ess Kay Engineering Company Ltd., Indian Company, a company duly incorporated & registered under the Indian Company Act, 1956 whose address is Factory Area, Kapurthala, Punjab, India, "FAN REGULATOR", 28th January 1997.

Class 3. No. 173055, Ess Ess Kay Engineering Company Ltd., Indian Company, a company duly incorporated & registered under the Indian Company Act, 1956 whose address is Factory Area, Kapurthala, Punjab, India, "SWITCH", 28th January 1997.

Class 3. No. 173068, Johnson Controls Hong Kong Limited, a company organized and existing under the Laws of Hong Kong and whose address is Unit 1501, 15/F, Devon House, Taikoo Place, 979 King's Rd., Quarry Bay, Hong Kong, "THERMOSTAT", 30th January 1997.

Class 10. Nos. 173084 & 173088, Dhupar Shoe Aid (P) Ltd., 7/82, Tilak Nagar, Kanpur, U.P., India, an separate entity body which are registered under the provision of Companies Act, 1956, "THE SOLE OF FOOTWEAR", 3rd February 1997.

Class 12. Nos. 173073 to 173076, Piruz Khambatta, Adult, an Indian national, residing at Behind Ellisbridge Gymkhana, Ellisbridge, Ahmedabad-380 006, Gujarat State, India, "CONFECTIONARY", 30th January 1997.

H. D. THAKUR  
Controller Genl. of Patents Designs & Trademarks

प्रबन्धक, भारत सरकार मद्रासालय, फरीदाबाद द्वारा मूल्यान्तर  
एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1998

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